

Equipment and newly developed methodological approaches for isotopic-geochemical studying fluid phases in rocks and minerals

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Abstract

© 2017, Pleiades Publishing, Ltd. The paper presents data on an original equipment complex, consisting of two apparatuses, designed to prepare rock and mineral samples for the isotopic analysis of their fluid and/or gas inclusions. An example of samples from the Guli alkaline ultramafic massif in the Maimecha-Kutui province, northern central Siberia, is employed to demonstrate the capabilities of the technique of stepwise sample crushing and multiple-isotope analysis of the fluid phase.

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Keywords

and oxygen isotopes, carbon, carbon dioxide, equilibrium complex for gas sample preparation, fluid inclusions, hydrogen, inlet unit, isotopic analysis, water

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